FIG.1

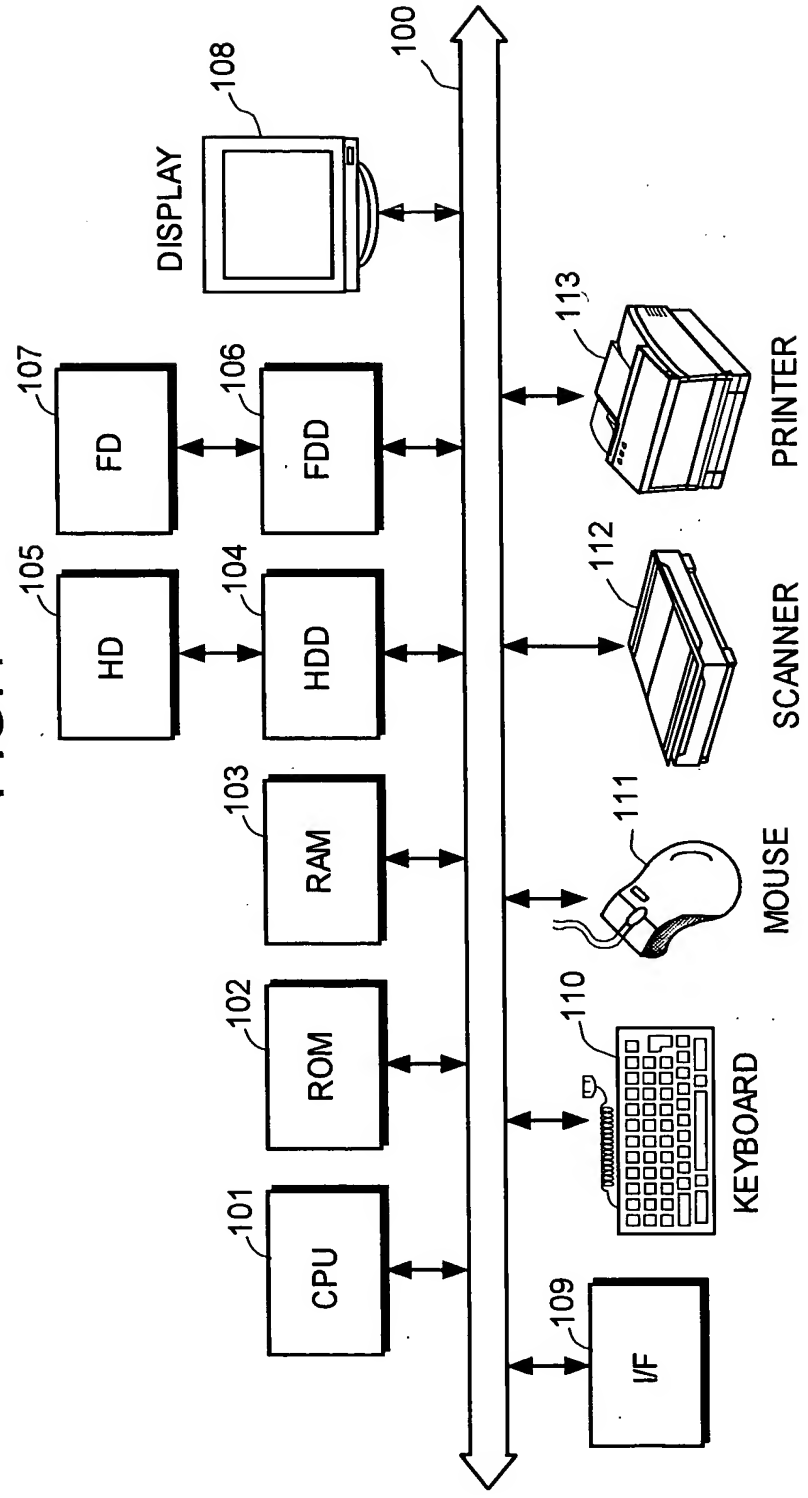

100
DISPLAY
108
FD
107
FDD
106
PRINTER
113
HD
105
HDD
104
SCANNER
112
RAM
103
MOUSE
111
ROM
102
KEYBOARD
110
CPU
101
I/F
109

FIG.2

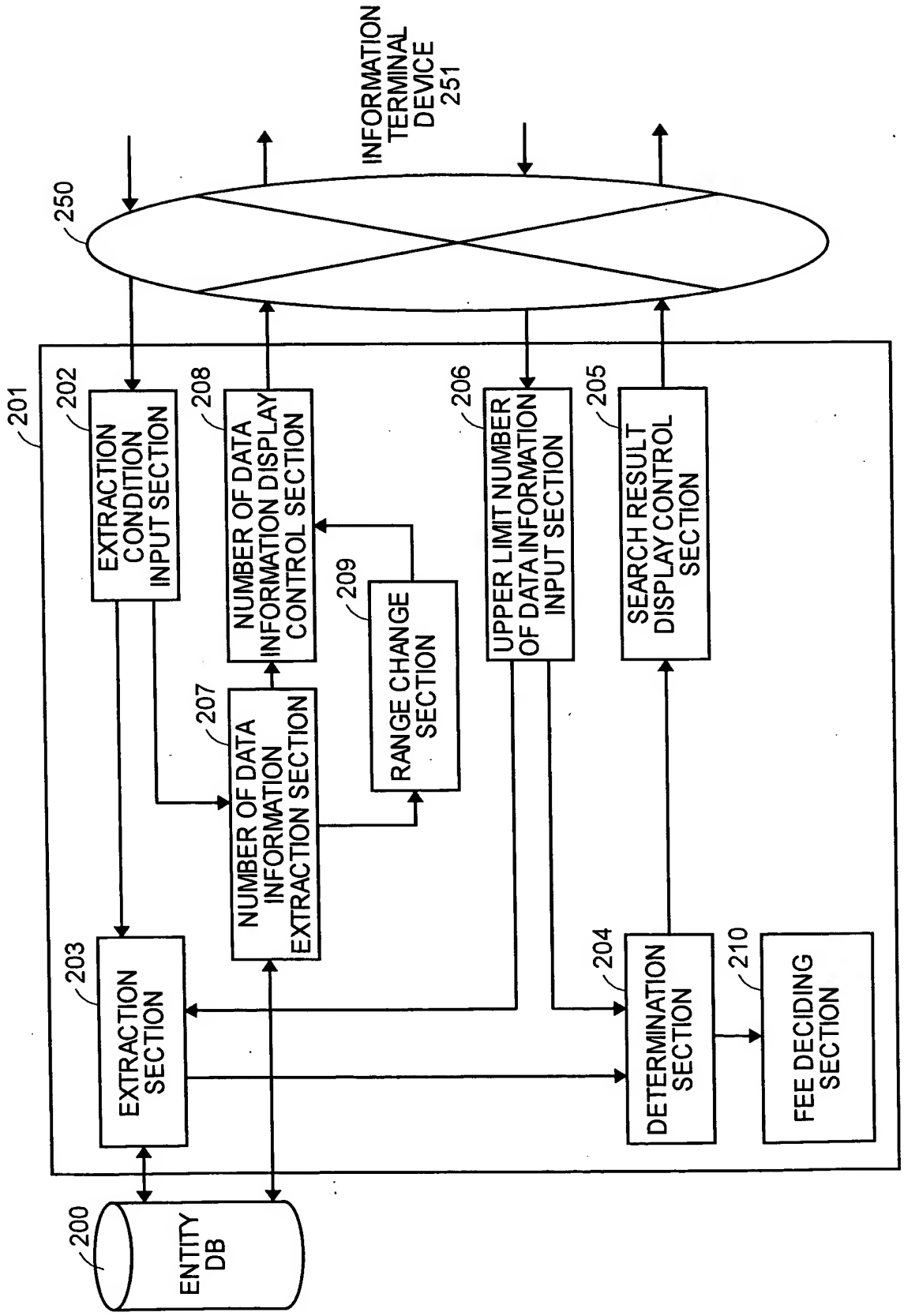
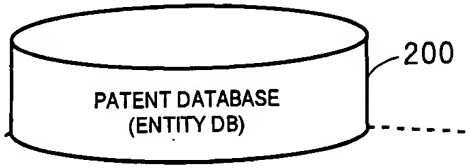

INFORMATION TERMINAL DEVICE 251
250
201
202
EXTRACTION CONDITION INPUT SECTION
208
NUMBER OF DATA INFORMATION DISPLAY CONTROL SECTION
206
UPPER LIMIT NUMBER OF DATA INFORMATION INPUT SECTION
205
SEARCH RESULT DISPLAY CONTROL SECTION
209
RANGE CHANGE SECTION
207
NUMBER OF DATA INFORMATION EXTRACTION SECTION
203
EXTRACTION SECTION
204
DETERMINATION SECTION
210
FEE DECIDING SECTION
200
ENTITY DB

FIG.3



SEQ NUMBER	DOCUMENT NUMBER	APPLICATION NUMBER	FILING DATE	LAID-OPEN/ PUBLIC DISCLOSURE NUMBER	LAID-OPEN/ PUBLIC DISCLOSURE DATE	IPC-SUBDIVISION SYMBOL	APPLICANT/ RIGHT HOLDER	INVENTOR/ CREATOR OF DEVICE	TITLE OF THE INVENTION	DATA REGISTRATION DATE
1	JPA NO. H07-068482	1993209656	19930824	1995066193	19950310	H01L 21/316 F	AA CO., LTD.	×RO ○NISHI	METHOD OF FORMING OXIDE FILM IN SEMICONDUCTOR DEVICE	19950310
2	JPA NO. H07-068487	1993207848	19930823	1995066590	19950310	H05K 13/02 F	AA CO., LTD.	○○ △□	METHOD OF SUPPLYING ELECTRONIC PARTS	19950310
3	JPA NO. H07-075979	1993211891	19930826	1995067148	19950310	H04Q 1/14 F	BB CO., LTD.	◇○ ×YAMA	METHOD OF PROCESSING LINK WIRING CABLE ON MAIN DISTRIBUTING FRAME OF SWITCHBOARD	19950310
4	JPA NO. H07-078451	1993219640	19930903	1995068482	19950314	B25J 15/04 F	AA CO., LTD.	△ ○KAWA	HAND HOLDING APPARATUS	19950314
5	JPA NO. H07-080790	1993220783	19930906	1995068487	19950314	B25J 19/02 F	AA CO., LTD.	△ ○KAWA	LOCKING MECHANISM OF FORCE-TORQUE SENSOR AND UNLOCKING METHOD THEREOF	19950314
6	JPA NO. H07-083640	1993218943	19930902	1995072185	19950317	G01R 19/165 F	AA CO., LTD.	× □TA	POWER SOURCE VOLTAGE MONITORING CIRCUIT	19950317
7	JPA NO. H07-085286	1993221616	19930907	1995072930	19950317	G05D 3/12 F	AA CO., LTD.	○○ ◇MOTO	POSITIONING APPARATUS	19950317
.	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○
.	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○
.	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○	○○○

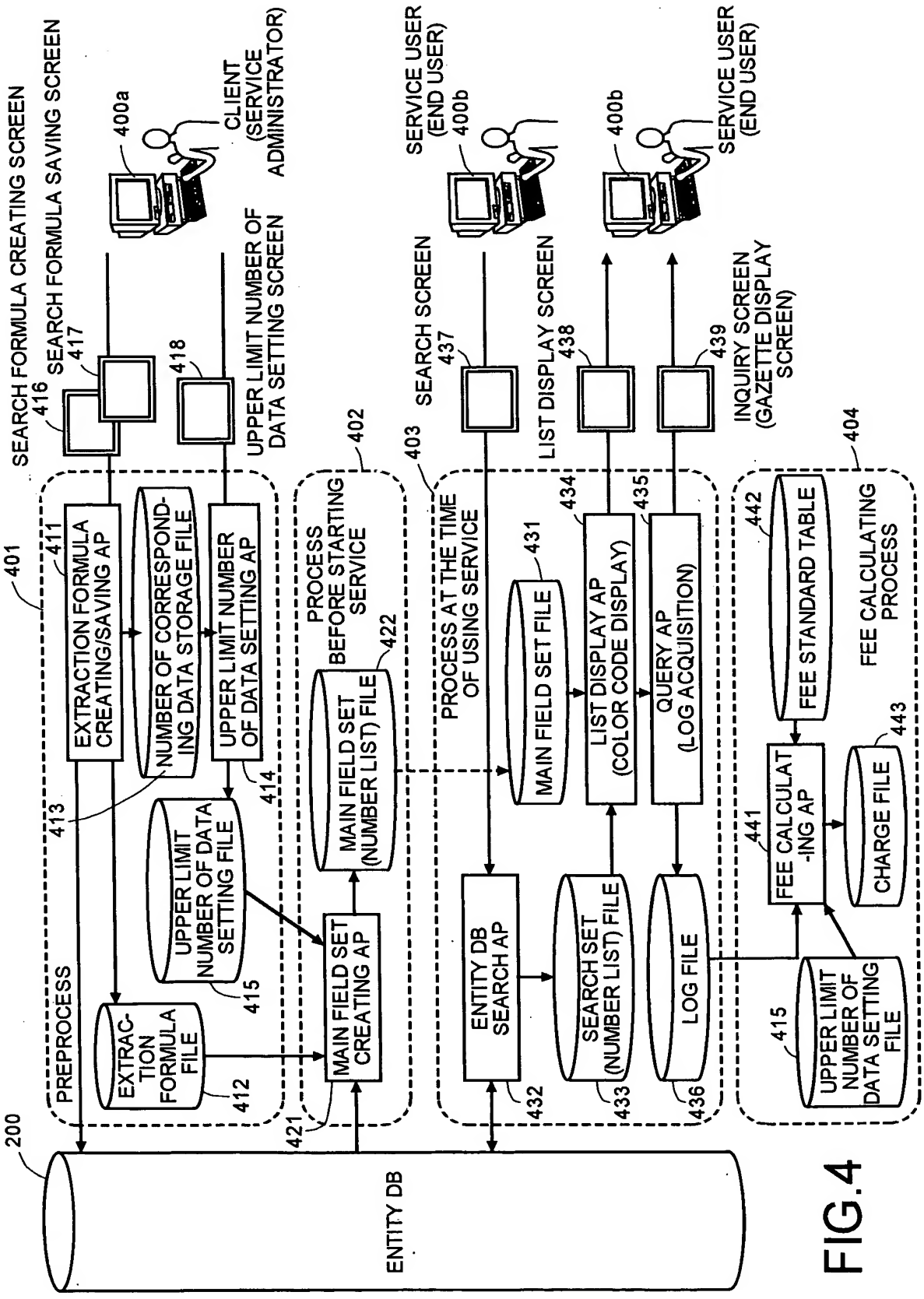

SEARCH FORMULA CREATING SCREEN
SEARCH FORMULA SAVING SCREEN
UPPER LIMIT NUMBER OF DATA SETTING SCREEN
CLIENT (SERVICE ADMINISTRATOR)
SERVICE USER (END USER)
SERVICE USER (END USER)
SEARCH SCREEN
LIST DISPLAY SCREEN
INQUIRY SCREEN (GAZETTE DISPLAY SCREEN)
400a
400b
400b
416
417
418
437
438
439
401
402
403
404
411
EXTRACTION FORMULA CREATING/SAVING AP
NUMBER OF CORRESPOND-ING DATA STORAGE FILE
UPPER LIMIT NUMBER OF DATA SETTING AP
PROCESS BEFORE STARTING SERVICE
PROCESS AT THE TIME OF USING SERVICE
FEE CALCULATING PROCESS
413
414
422
431
434
435
442
PREPROCESS
EXTRAC-TION FORMULA FILE
UPPER LIMIT NUMBER OF DATA SETTING FILE
MAIN FIELD SET (NUMBER LIST) FILE
MAIN FIELD SET FILE
LIST DISPLAY AP (COLOR CODE DISPLAY)
QUERY AP (LOG ACQUISITION)
FEE STANDARD TABLE
412
415
MAIN FIELD SET CREATING AP
ENTITY DB SEARCH AP
SEARCH SET (NUMBER LIST) FILE
LOG FILE
FEE CALCULAT-ING AP
CHARGE FILE
421
432
433
436
441
443
415
UPPER LIMIT NUMBER OF DATA SETTING FILE
200
ENTITY DB

FIG.4

FIG.5

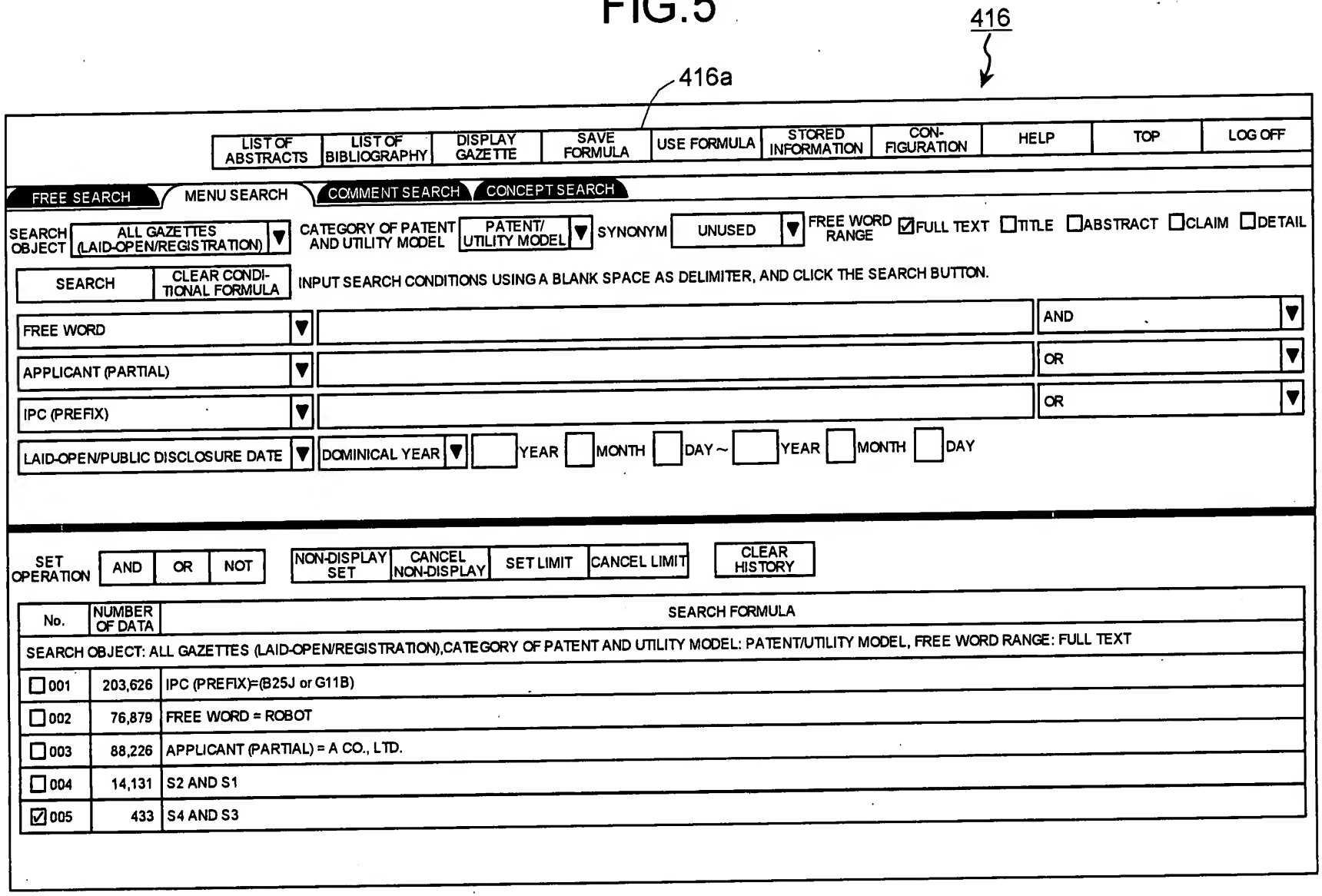

416
416a
LIST OF ABSTRACTS
LIST OF BIBLIOGRAPHY
DISPLAY GAZETTE
SAVE FORMULA
USE FORMULA
STORED INFORMATION
CON-FIGURATION
HELP
TOP
LOG OFF
FREE SEARCH
MENU SEARCH
COMMENT SEARCH
CONCEPT SEARCH
SEARCH OBJECT
ALL GAZETTES (LAID-OPEN/REGISTRATION)
CATEGORY OF PATENT AND UTILITY MODEL
PATENT/ UTILITY MODEL
SYNONYM
UNUSED
FREE WORD RANGE
FULL TEXT
TITLE
ABSTRACT
CLAIM
DETAIL
SEARCH
CLEAR CONDI-TIONAL FORMULA
INPUT SEARCH CONDITIONS USING A BLANK SPACE AS DELIMITER, AND CLICK THE SEARCH BUTTON.
FREE WORD
AND
APPLICANT (PARTIAL)
OR
IPC (PREFIX)
OR
LAID-OPEN/PUBLIC DISCLOSURE DATE
DOMINICAL YEAR
YEAR
MONTH
DAY ~
YEAR
MONTH
DAY
SET OPERATION
AND
OR
NOT
NON-DISPLAY SET
CANCEL NON-DISPLAY
SET LIMIT
CANCEL LIMIT
CLEAR HISTORY
No.
NUMBER OF DATA
SEARCH FORMULA
SEARCH OBJECT: ALL GAZETTES (LAID-OPEN/REGISTRATION),CATEGORY OF PATENT AND UTILITY MODEL: PATENT/UTILITY MODEL, FREE WORD RANGE: FULL TEXT
001 203,626 IPC (PREFIX)=(B25J or G11B)
002 76,879 FREE WORD = ROBOT
003 88,226 APPLICANT (PARTIAL) = A CO., LTD.
004 14,131 S2 AND S1
005 433 S4 AND S3

FIG.6

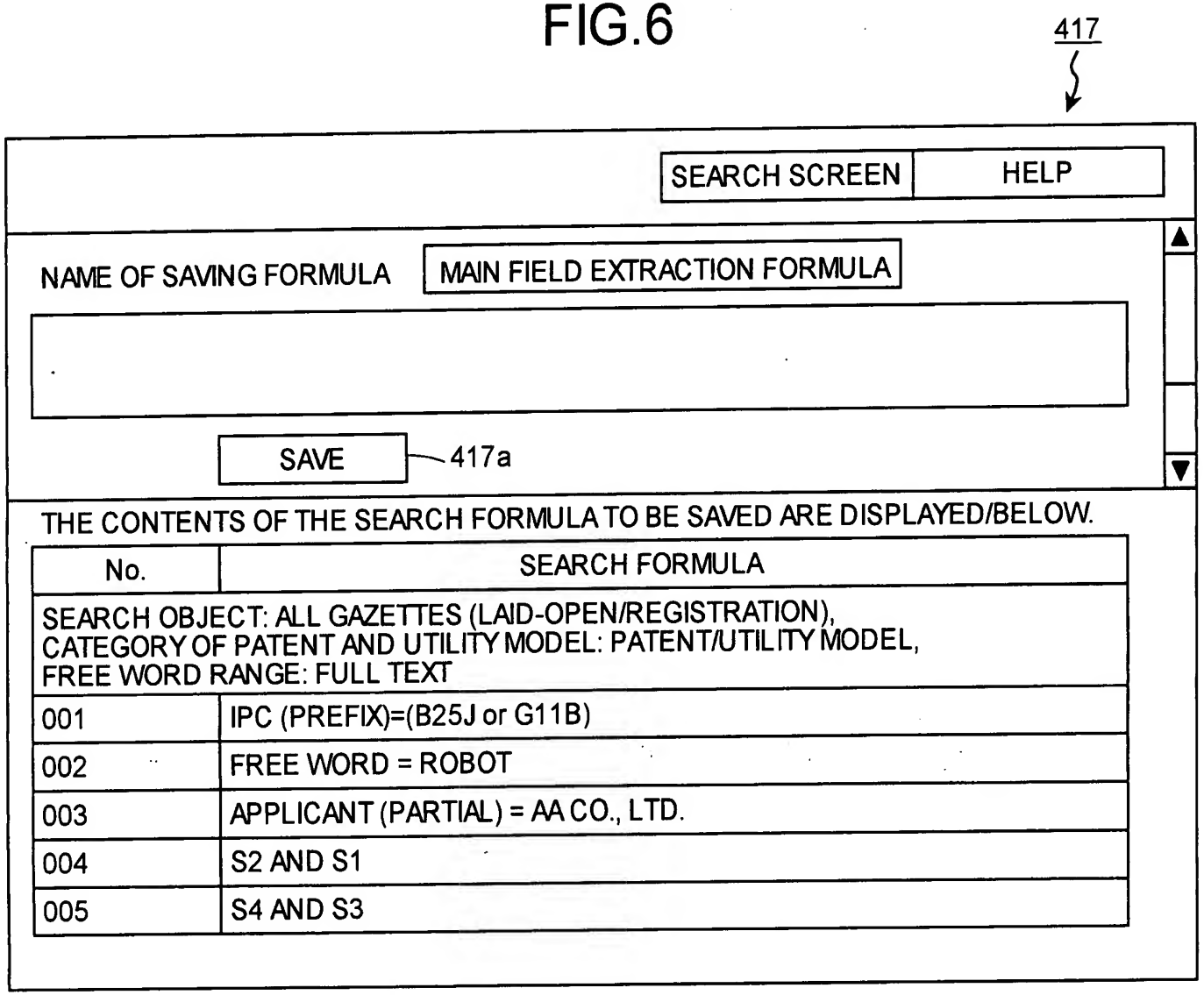

417
SEARCH SCREEN
HELP
NAME OF SAVING FORMULA
MAIN FIELD EXTRACTION FORMULA
SAVE
417a
THE CONTENTS OF THE SEARCH FORMULA TO BE SAVED ARE DISPLAYED/BELOW.
No.
SEARCH FORMULA
SEARCH OBJECT: ALL GAZETTES (LAID-OPEN/REGISTRATION),
CATEGORY OF PATENT AND UTILITY MODEL: PATENT/UTILITY MODEL,
FREE WORD RANGE: FULL TEXT
001
IPC (PREFIX)=(B25J or G11B)
002
FREE WORD = ROBOT
003
APPLICANT (PARTIAL) = AA CO., LTD.
004
S2 AND S1
005
S4 AND S3

FIG.7

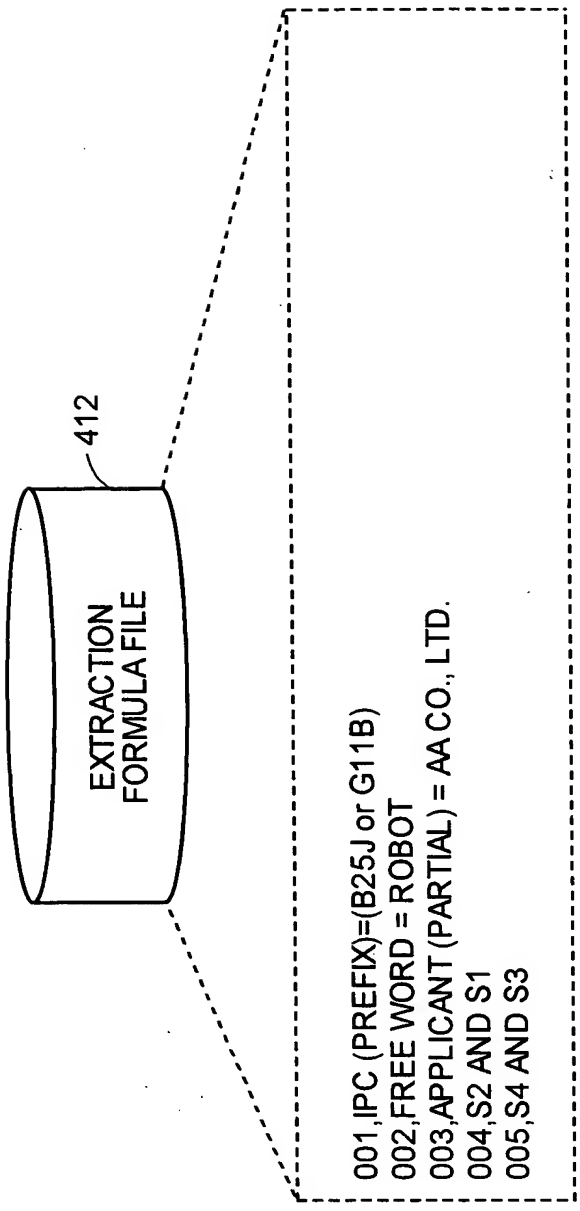

412
EXTRACTION FORMULA FILE
001,IPC (PREFIX)=(B25J or G11B)
002,FREE WORD = ROBOT
003,APPLICANT (PARTIAL) = AA CO., LTD.
004,S2 AND S1
005,S4 AND S3

FIG.8

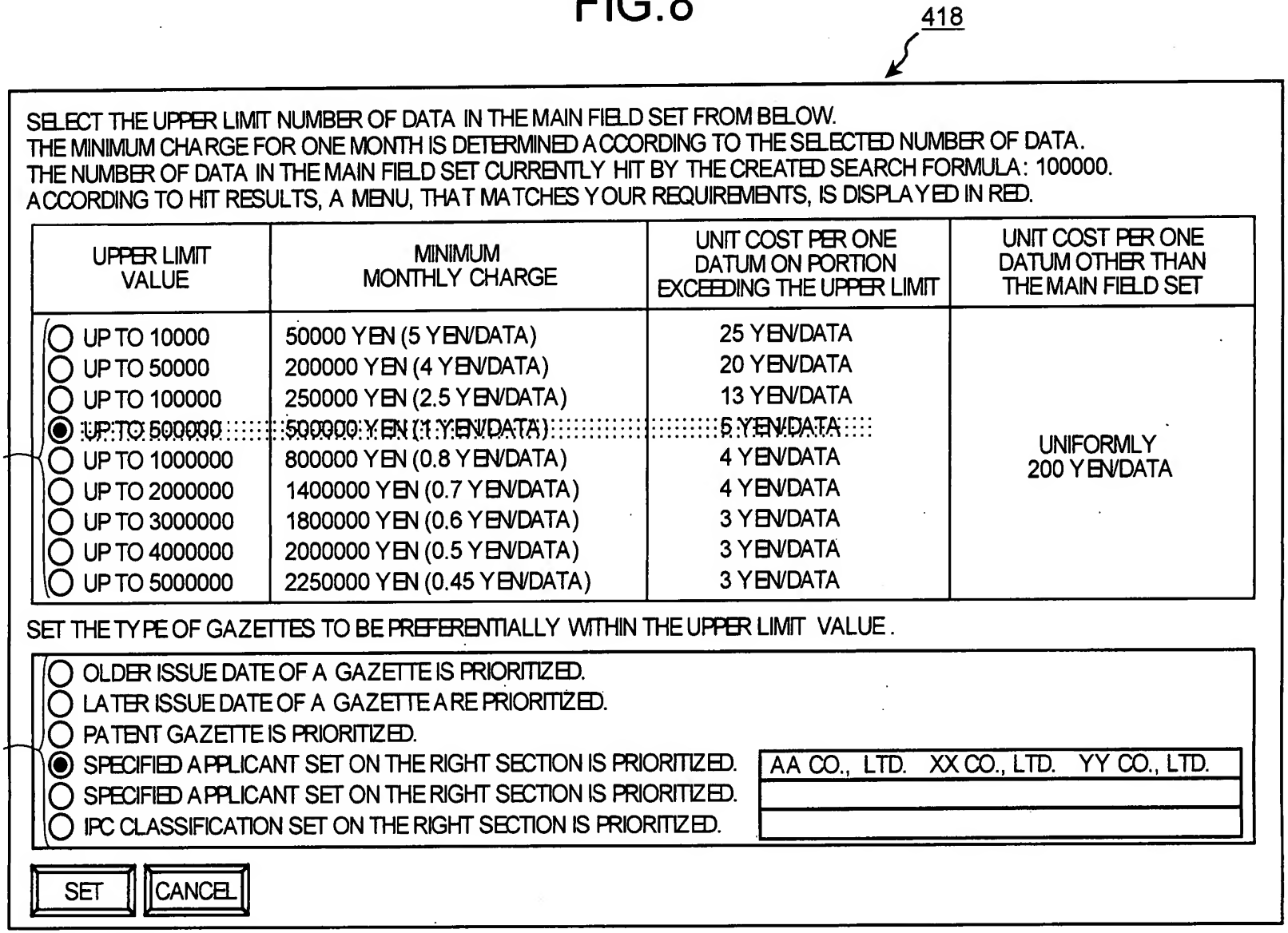

418
SELECT THE UPPER LIMIT NUMBER OF DATA IN THE MAIN FIELD SET FROM BELOW.
THE MINIMUM CHARGE FOR ONE MONTH IS DETERMINED ACCORDING TO THE SELECTED NUMBER OF DATA.
THE NUMBER OF DATA IN THE MAIN FIELD SET CURRENTLY HIT BY THE CREATED SEARCH FORMULA: 100000.
ACCORDING TO HIT RESULTS, A MENU, THAT MATCHES YOUR REQUIREMENTS, IS DISPLAYED IN RED.
UPPER LIMIT VALUE
MINIMUM MONTHLY CHARGE
UNIT COST PER ONE DATUM ON PORTION EXCEEDING THE UPPER LIMIT
UNIT COST PER ONE DATUM OTHER THAN THE MAIN FIELD SET
UP TO 10000
50000 YEN (5 YEN/DATA)
25 YEN/DATA
UP TO 50000
200000 YEN (4 YEN/DATA)
20 YEN/DATA
UP TO 100000
250000 YEN (2.5 YEN/DATA)
13 YEN/DATA
UP TO 500000
500000 YEN (1 YEN/DATA)
5 YEN/DATA
UP TO 1000000
800000 YEN (0.8 YEN/DATA)
4 YEN/DATA
UP TO 2000000
1400000 YEN (0.7 YEN/DATA)
4 YEN/DATA
UP TO 3000000
1800000 YEN (0.6 YEN/DATA)
3 YEN/DATA
UP TO 4000000
2000000 YEN (0.5 YEN/DATA)
3 YEN/DATA
UP TO 5000000
2250000 YEN (0.45 YEN/DATA)
3 YEN/DATA
UNIFORMLY 200 YEN/DATA
419
SET THE TYPE OF GAZETTES TO BE PREFERENTIALLY WITHIN THE UPPER LIMIT VALUE.
OLDER ISSUE DATE OF A GAZETTE IS PRIORITIZED.
LATER ISSUE DATE OF A GAZETTE ARE PRIORITIZED.
PATENT GAZETTE IS PRIORITIZED.
SPECIFIED APPLICANT SET ON THE RIGHT SECTION IS PRIORITIZED.
SPECIFIED APPLICANT SET ON THE RIGHT SECTION IS PRIORITIZED.
IPC CLASSIFICATION SET ON THE RIGHT SECTION IS PRIORITIZED.
AA CO., LTD. XX CO., LTD. YY CO., LTD.
420
SET
CANCEL

FIG.9

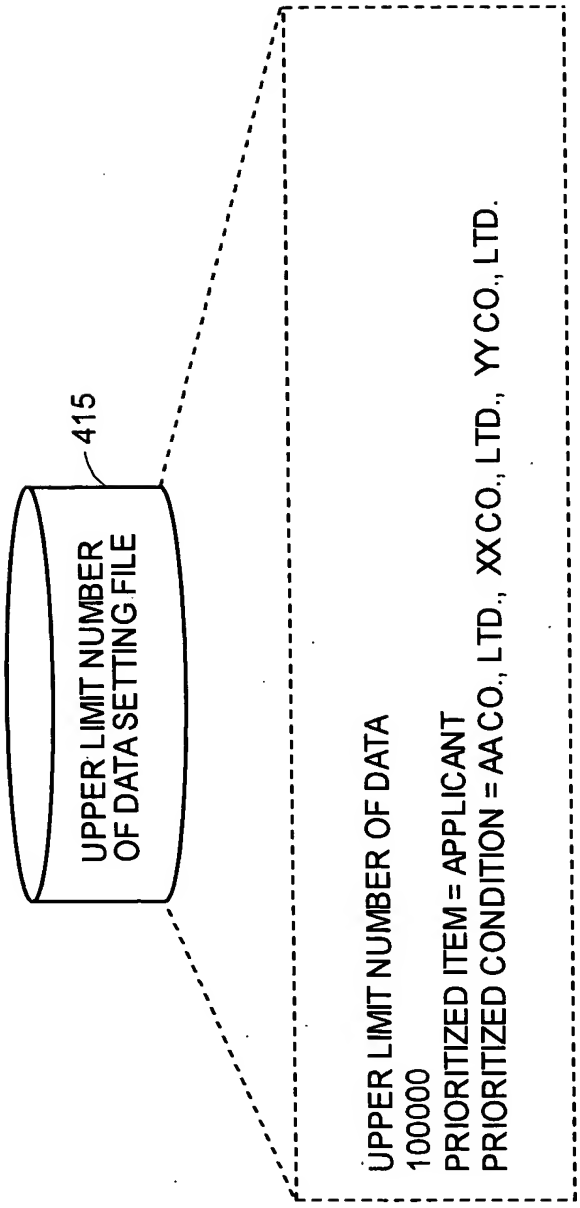

415
UPPER LIMIT NUMBER OF DATA SETTING FILE
UPPER LIMIT NUMBER OF DATA
100000
PRIORITIZED ITEM = APPLICANT
PRIORITIZED CONDITION = AA CO., LTD., XX CO., LTD., YY CO., LTD.

FIG.10

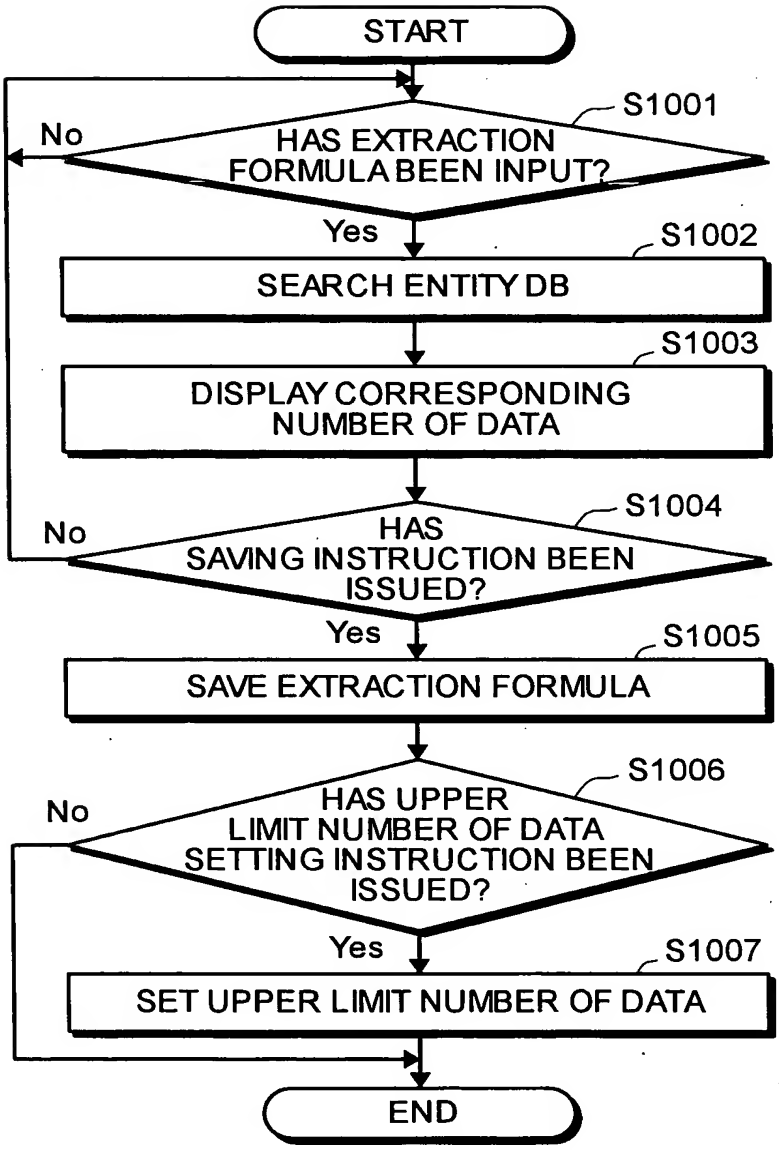

START
S1001
HAS EXTRACTION FORMULA BEEN INPUT?
No
Yes
S1002
SEARCH ENTITY DB
S1003
DISPLAY CORRESPONDING NUMBER OF DATA
S1004
HAS SAVING INSTRUCTION BEEN ISSUED?
No
Yes
S1005
SAVE EXTRACTION FORMULA
S1006
HAS UPPER LIMIT NUMBER OF DATA SETTING INSTRUCTION BEEN ISSUED?
No
Yes
S1007
SET UPPER LIMIT NUMBER OF DATA
END

FIG.11

SEQ NUMBER	DATA REGISTRATION DATE	GAZETTE TYPE	APPLICANT	IPC	UPPER LIMIT FLAG
1	19930101	LAID-OPEN APPLICATION PUBLICATION	AA CO., LTD.	H01L01..	
5	19930221	REGISTERED APPLICATION PUBLICATION	AA CO., LTD.	H03L01..	
12	19931020	LAID-OPEN APPLICATION PUBLICATION	XX CO., LTD.	G06A2..	
•					
•					
•					
29930	20020101	LAID-OPEN APPLICATION PUBLICATION	XX CO., LTD.	B05D01..	1
30010	20020405	REGISTERED APPLICATION PUBLICATION	YY CO., LTD.	G04B02..	1

FIG. 12

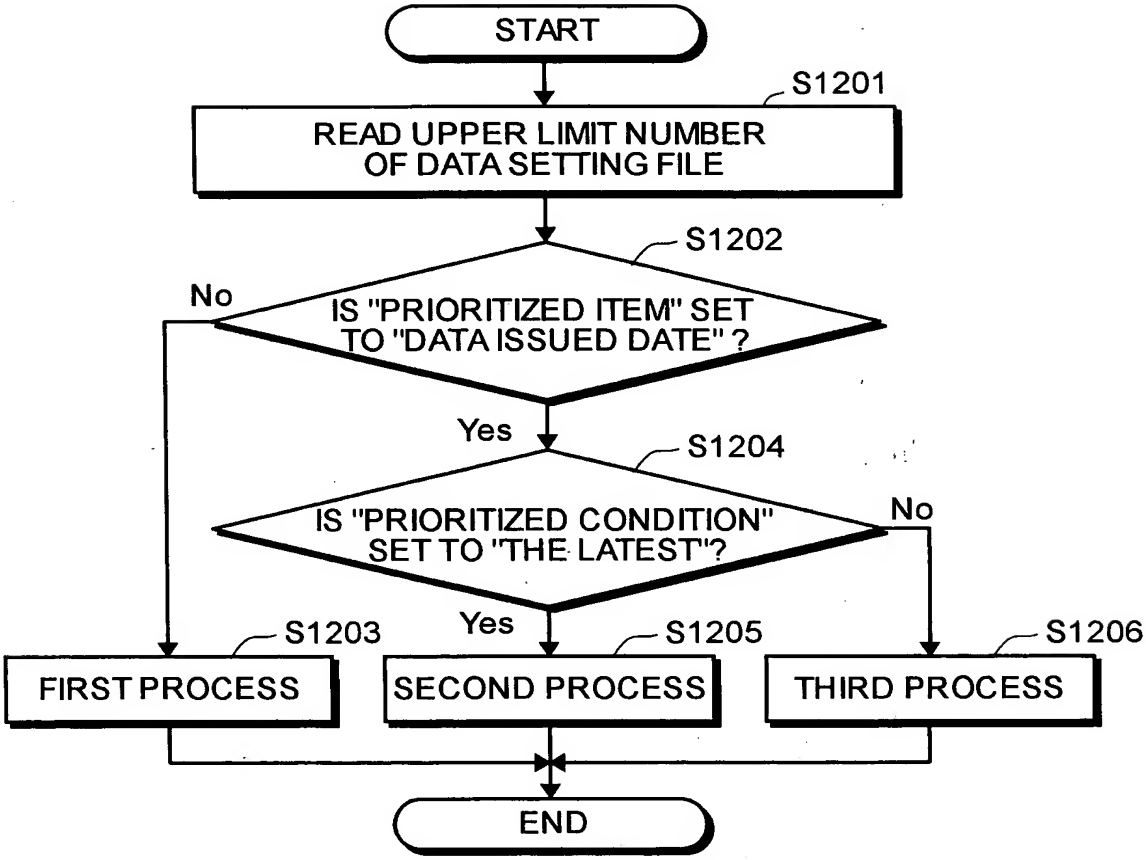

START
S1201
READ UPPER LIMIT NUMBER OF DATA SETTING FILE
S1202
No
IS "PRIORITIZED ITEM" SET TO "DATA ISSUED DATE" ?
Yes
S1204
IS "PRIORITIZED CONDITION" SET TO "THE LATEST"?
No
Yes
S1203
S1205
S1206
FIRST PROCESS
SECOND PROCESS
THIRD PROCESS
END

FIG. 13

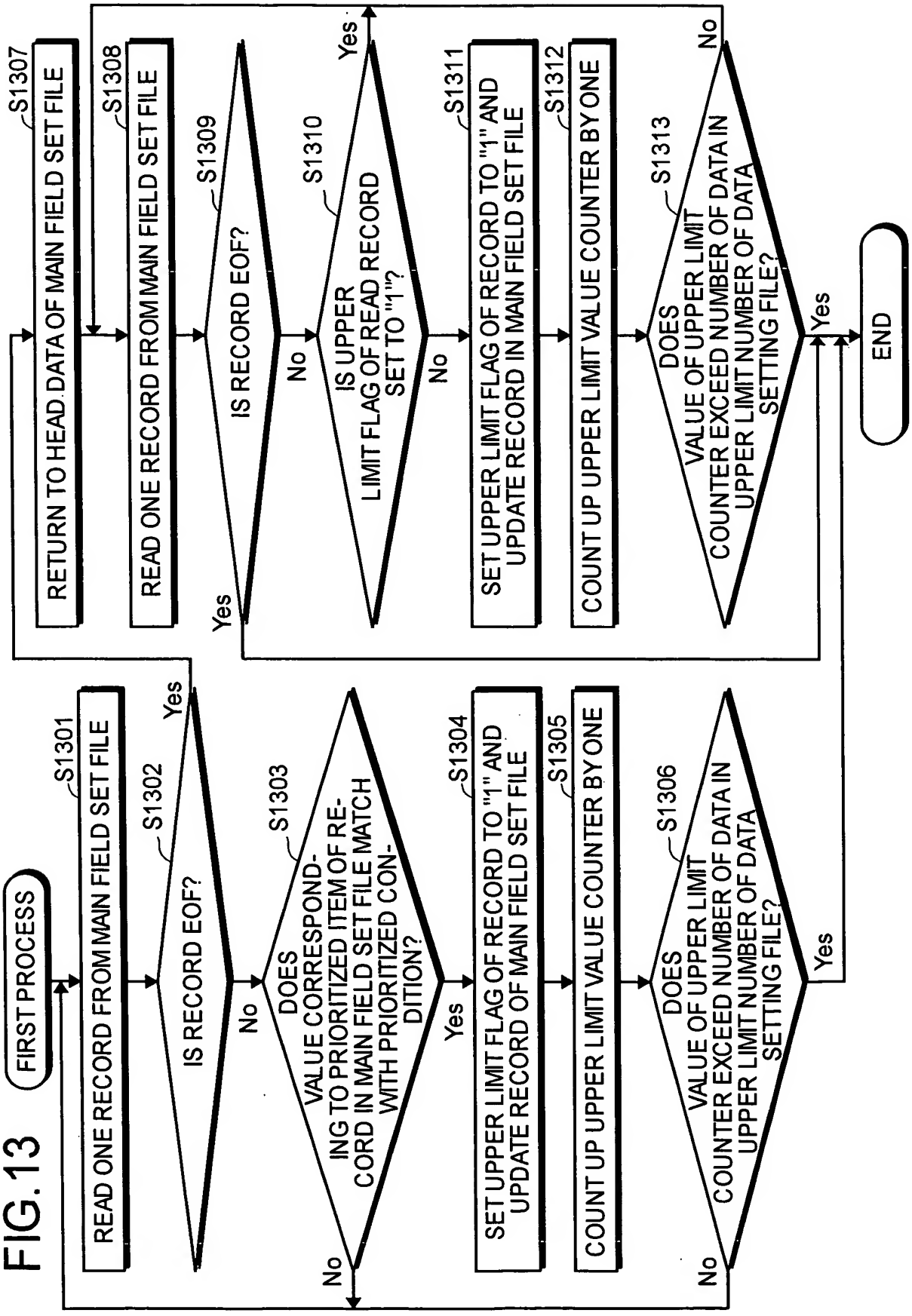

FIRST PROCESS
S1301
READ ONE RECORD FROM MAIN FIELD SET FILE
S1302
IS RECORD EOF?
Yes
No
S1303
DOES VALUE CORRESPONDING TO PRIORITIZED ITEM OF RECORD IN MAIN FIELD SET FILE MATCH WITH PRIORITIZED CONDITION?
No
Yes
S1304
SET UPPER LIMIT FLAG OF RECORD TO "1" AND UPDATE RECORD OF MAIN FIELD SET FILE
S1305
COUNT UP UPPER LIMIT VALUE COUNTER BY ONE
S1306
DOES VALUE OF UPPER LIMIT COUNTER EXCEED NUMBER OF DATA IN UPPER LIMIT NUMBER OF DATA SETTING FILE?
No
Yes
S1307
RETURN TO HEAD DATA OF MAIN FIELD SET FILE
S1308
READ ONE RECORD FROM MAIN FIELD SET FILE
S1309
IS RECORD EOF?
Yes
No
S1310
IS UPPER LIMIT FLAG OF READ RECORD SET TO "1"?
Yes
No
S1311
SET UPPER LIMIT FLAG OF RECORD TO "1" AND UPDATE RECORD IN MAIN FIELD SET FILE
S1312
COUNT UP UPPER LIMIT VALUE COUNTER BY ONE
S1313
DOES VALUE OF UPPER LIMIT COUNTER EXCEED NUMBER OF DATA IN UPPER LIMIT NUMBER OF DATA SETTING FILE?
No
Yes
END

FIG. 14

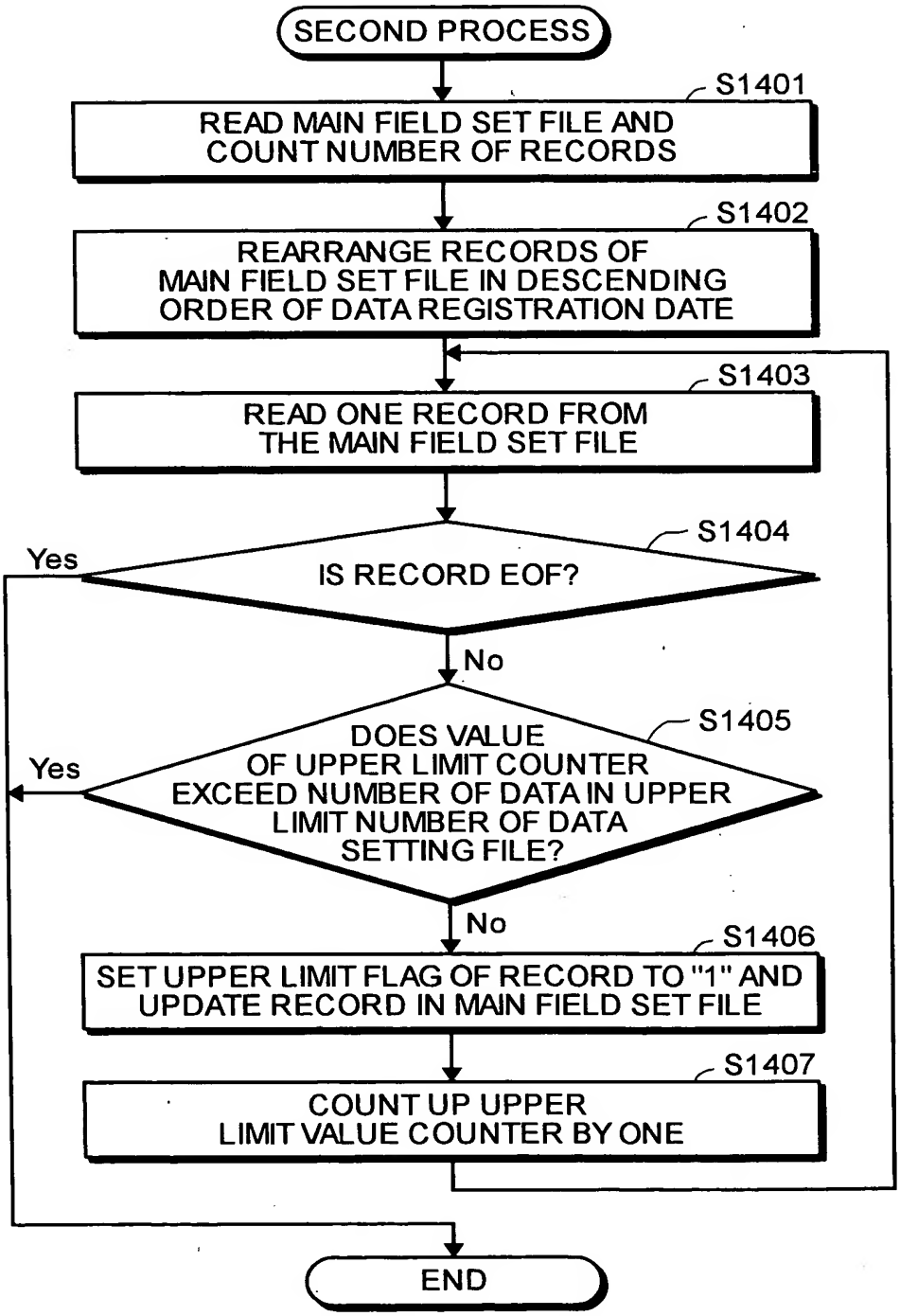

SECOND PROCESS
S1401
READ MAIN FIELD SET FILE AND COUNT NUMBER OF RECORDS
S1402
REARRANGE RECORDS OF MAIN FIELD SET FILE IN DESCENDING ORDER OF DATA REGISTRATION DATE
S1403
READ ONE RECORD FROM THE MAIN FIELD SET FILE
S1404
IS RECORD EOF?
Yes
No
S1405
DOES VALUE OF UPPER LIMIT COUNTER EXCEED NUMBER OF DATA IN UPPER LIMIT NUMBER OF DATA SETTING FILE?
Yes
No
S1406
SET UPPER LIMIT FLAG OF RECORD TO "1" AND UPDATE RECORD IN MAIN FIELD SET FILE
S1407
COUNT UP UPPER LIMIT VALUE COUNTER BY ONE
END

FIG. 15

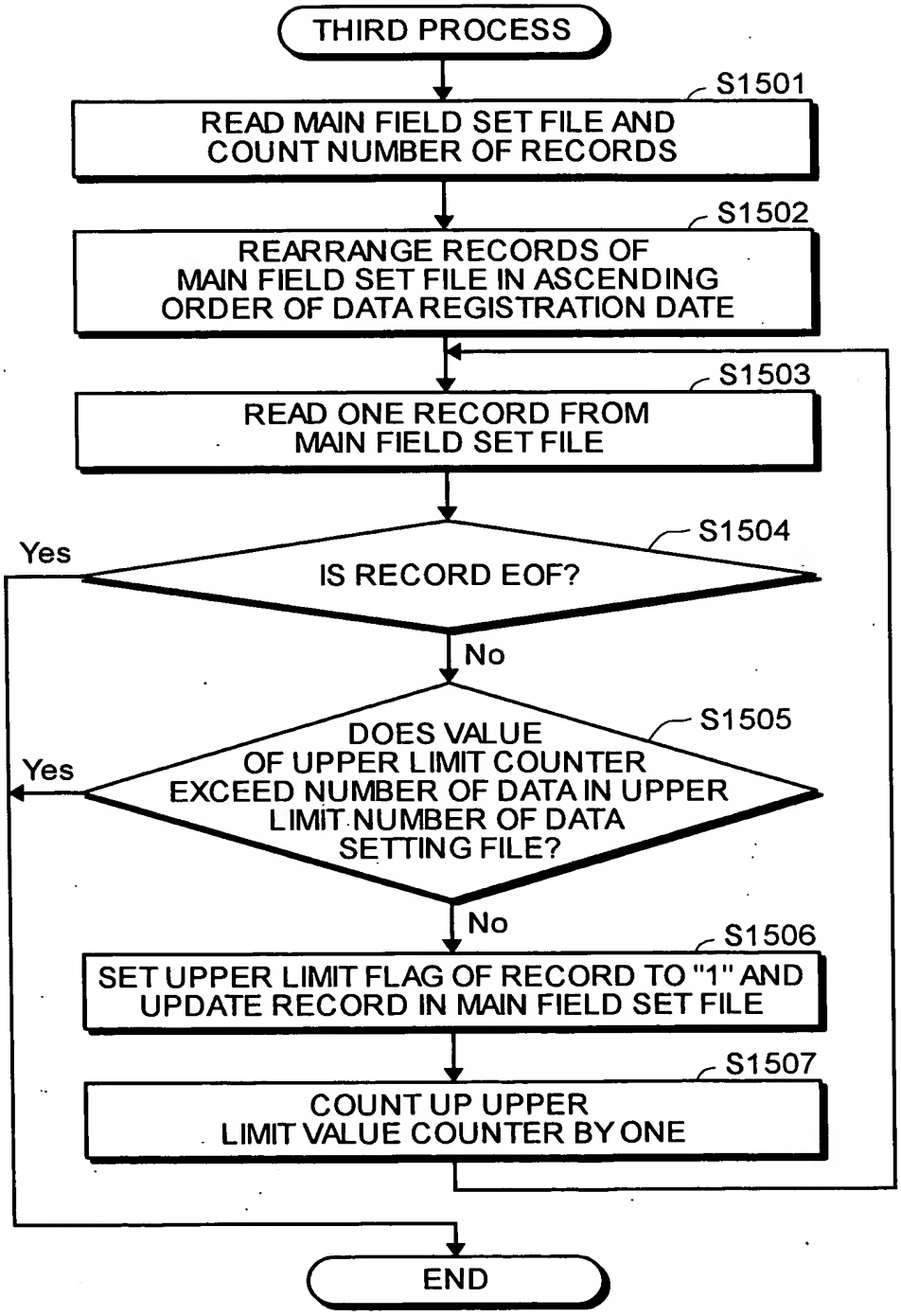

THIRD PROCESS
S1501
READ MAIN FIELD SET FILE AND COUNT NUMBER OF RECORDS
S1502
REARRANGE RECORDS OF MAIN FIELD SET FILE IN ASCENDING ORDER OF DATA REGISTRATION DATE
S1503
READ ONE RECORD FROM MAIN FIELD SET FILE
S1504
IS RECORD EOF?
Yes
No
S1505
DOES VALUE OF UPPER LIMIT COUNTER EXCEED NUMBER OF DATA IN UPPER LIMIT NUMBER OF DATA SETTING FILE?
Yes
No
S1506
SET UPPER LIMIT FLAG OF RECORD TO "1" AND UPDATE RECORD IN MAIN FIELD SET FILE
S1507
COUNT UP UPPER LIMIT VALUE COUNTER BY ONE
END

FIG. 16

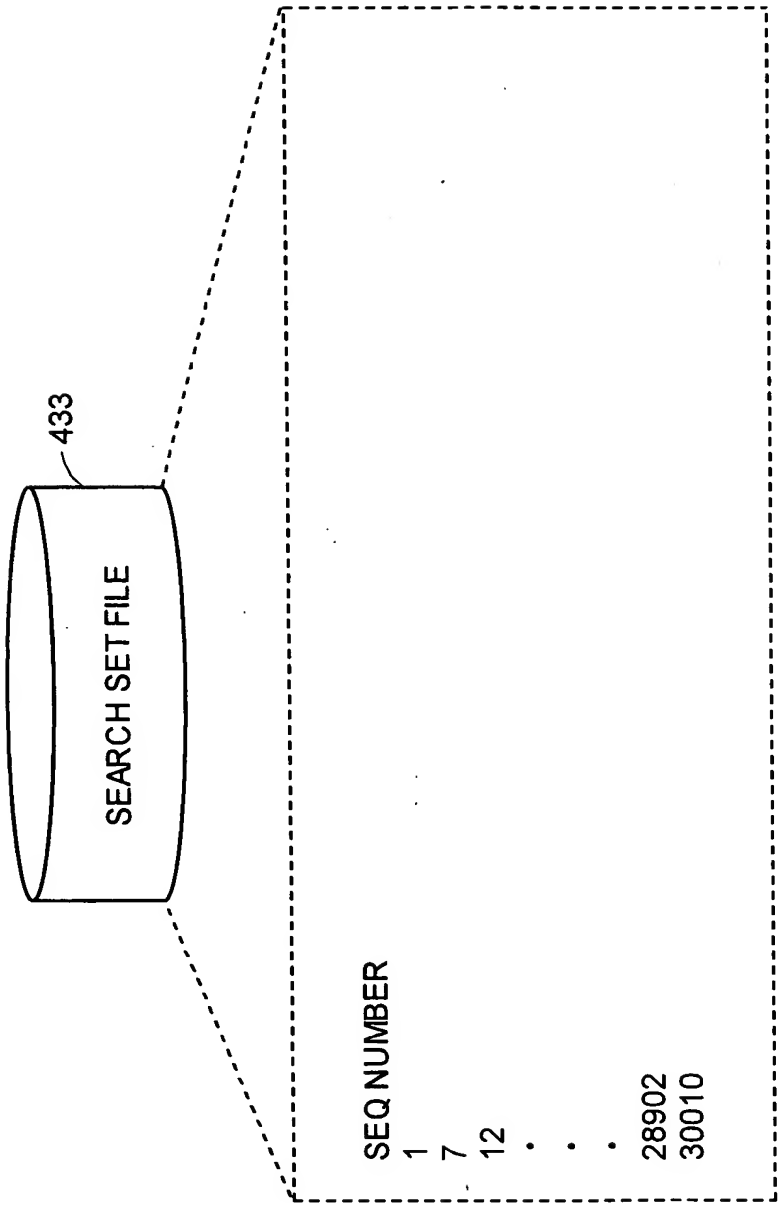


FIG.17

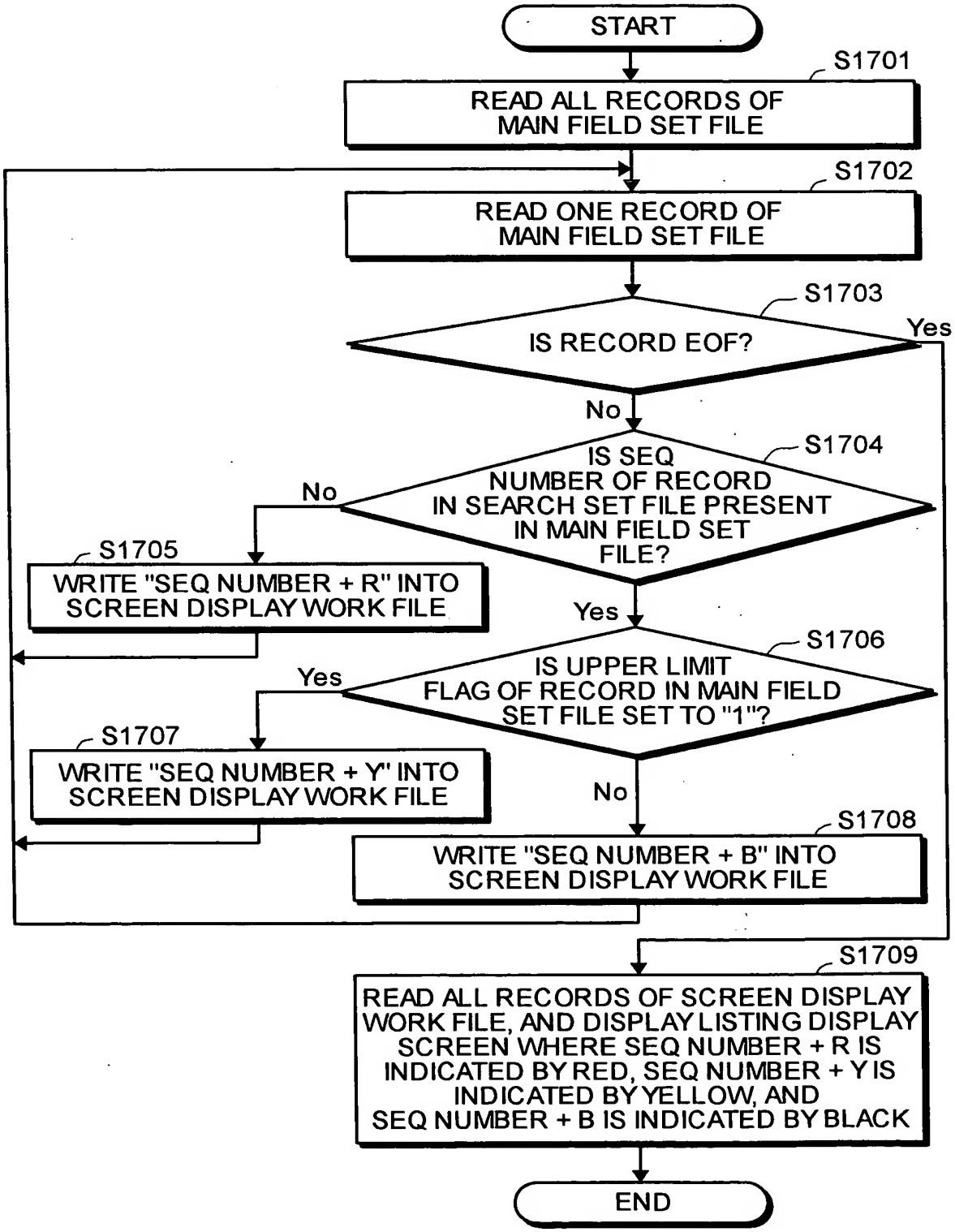
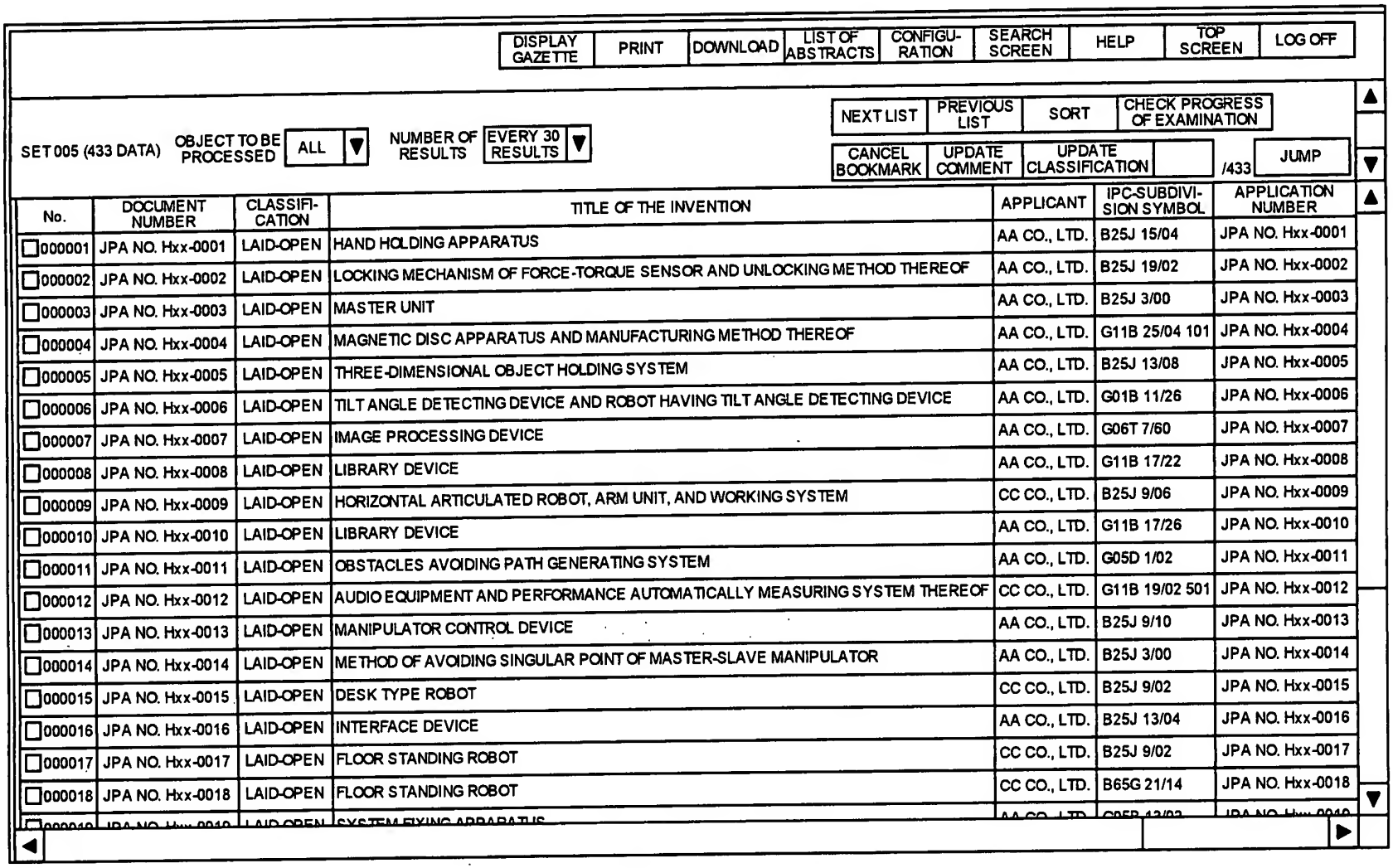

START
S1701
READ ALL RECORDS OF MAIN FIELD SET FILE
S1702
READ ONE RECORD OF MAIN FIELD SET FILE
S1703
IS RECORD EOF?
Yes
No
S1704
IS SEQ NUMBER OF RECORD IN SEARCH SET FILE PRESENT IN MAIN FIELD SET FILE?
No
S1705
WRITE "SEQ NUMBER + R" INTO SCREEN DISPLAY WORK FILE
Yes
S1706
IS UPPER LIMIT FLAG OF RECORD IN MAIN FIELD SET FILE SET TO "1"?
Yes
S1707
WRITE "SEQ NUMBER + Y" INTO SCREEN DISPLAY WORK FILE
No
S1708
WRITE "SEQ NUMBER + B" INTO SCREEN DISPLAY WORK FILE
S1709
READ ALL RECORDS OF SCREEN DISPLAY WORK FILE, AND DISPLAY LISTING DISPLAY SCREEN WHERE SEQ NUMBER + R IS INDICATED BY RED, SEQ NUMBER + Y IS INDICATED BY YELLOW, AND SEQ NUMBER + B IS INDICATED BY BLACK
END

FIG. 18

438



No.	DOCUMENT NUMBER	CLASSIFI-CATION	TITLE OF THE INVENTION	APPLICANT	IPC-SUBDIVI-SION SYMBOL	APPLICATION NUMBER
☐000001	JPA NO. Hxx-0001	LAID-OPEN	HAND HOLDING APPARATUS	AA CO., LTD.	B25J 15/04	JPA NO. Hxx-0001
☐000002	JPA NO. Hxx-0002	LAID-OPEN	LOCKING MECHANISM OF FORCE-TORQUE SENSOR AND UNLOCKING METHOD THEREOF	AA CO., LTD.	B25J 19/02	JPA NO. Hxx-0002
☐000003	JPA NO. Hxx-0003	LAID-OPEN	MASTER UNIT	AA CO., LTD.	B25J 3/00	JPA NO. Hxx-0003
☐000004	JPA NO. Hxx-0004	LAID-OPEN	MAGNETIC DISC APPARATUS AND MANUFACTURING METHOD THEREOF	AA CO., LTD.	G11B 25/04 101	JPA NO. Hxx-0004
☐000005	JPA NO. Hxx-0005	LAID-OPEN	THREE-DIMENSIONAL OBJECT HOLDING SYSTEM	AA CO., LTD.	B25J 13/08	JPA NO. Hxx-0005
☐000006	JPA NO. Hxx-0006	LAID-OPEN	TILT ANGLE DETECTING DEVICE AND ROBOT HAVING TILT ANGLE DETECTING DEVICE	AA CO., LTD.	G01B 11/26	JPA NO. Hxx-0006
☐000007	JPA NO. Hxx-0007	LAID-OPEN	IMAGE PROCESSING DEVICE	AA CO., LTD.	G06T 7/60	JPA NO. Hxx-0007
☐000008	JPA NO. Hxx-0008	LAID-OPEN	LIBRARY DEVICE	AA CO., LTD.	G11B 17/22	JPA NO. Hxx-0008
☐000009	JPA NO. Hxx-0009	LAID-OPEN	HORIZONTAL ARTICULATED ROBOT, ARM UNIT, AND WORKING SYSTEM	CC CO., LTD.	B25J 9/06	JPA NO. Hxx-0009
☐000010	JPA NO. Hxx-0010	LAID-OPEN	LIBRARY DEVICE	AA CO., LTD.	G11B 17/26	JPA NO. Hxx-0010
☐000011	JPA NO. Hxx-0011	LAID-OPEN	OBSTACLES AVOIDING PATH GENERATING SYSTEM	AA CO., LTD.	G05D 1/02	JPA NO. Hxx-0011
☐000012	JPA NO. Hxx-0012	LAID-OPEN	AUDIO EQUIPMENT AND PERFORMANCE AUTOMATICALLY MEASURING SYSTEM THEREOF	CC CO., LTD.	G11B 19/02 501	JPA NO. Hxx-0012
☐000013	JPA NO. Hxx-0013	LAID-OPEN	MANIPULATOR CONTROL DEVICE	AA CO., LTD.	B25J 9/10	JPA NO. Hxx-0013
☐000014	JPA NO. Hxx-0014	LAID-OPEN	METHOD OF AVOIDING SINGULAR POINT OF MASTER-SLAVE MANIPULATOR	AA CO., LTD.	B25J 3/00	JPA NO. Hxx-0014
☐000015	JPA NO. Hxx-0015	LAID-OPEN	DESK TYPE ROBOT	CC CO., LTD.	B25J 9/02	JPA NO. Hxx-0015
☐000016	JPA NO. Hxx-0016	LAID-OPEN	INTERFACE DEVICE	AA CO., LTD.	B25J 13/04	JPA NO. Hxx-0016
☐000017	JPA NO. Hxx-0017	LAID-OPEN	FLOOR STANDING ROBOT	CC CO., LTD.	B25J 9/02	JPA NO. Hxx-0017
☐000018	JPA NO. Hxx-0018	LAID-OPEN	FLOOR STANDING ROBOT	CC CO., LTD.	B65G 21/14	JPA NO. Hxx-0018
☐000019	JPA NO. Hxx-0019	LAID-OPEN	SYSTEM FIXING APPARATUS	AA CO., LTD.	G05B 13/02	JPA NO. Hxx-0019

FIG.19

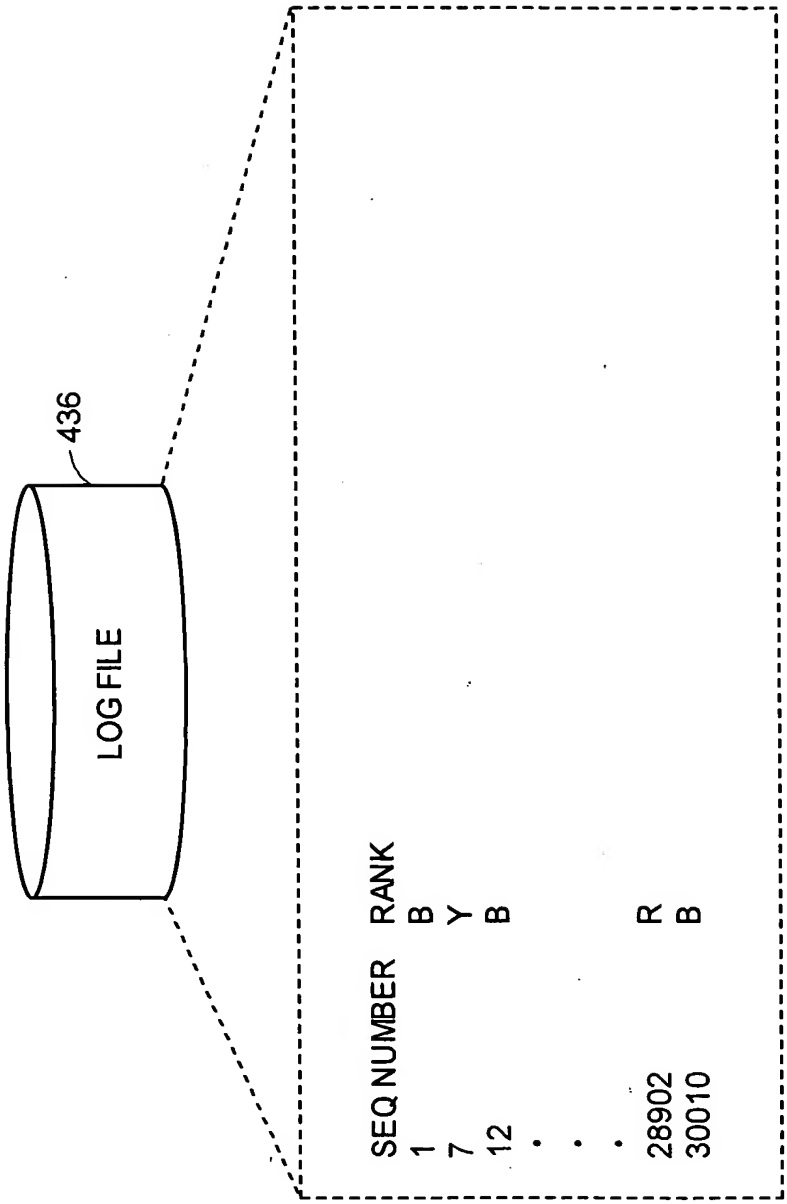


FIG.20

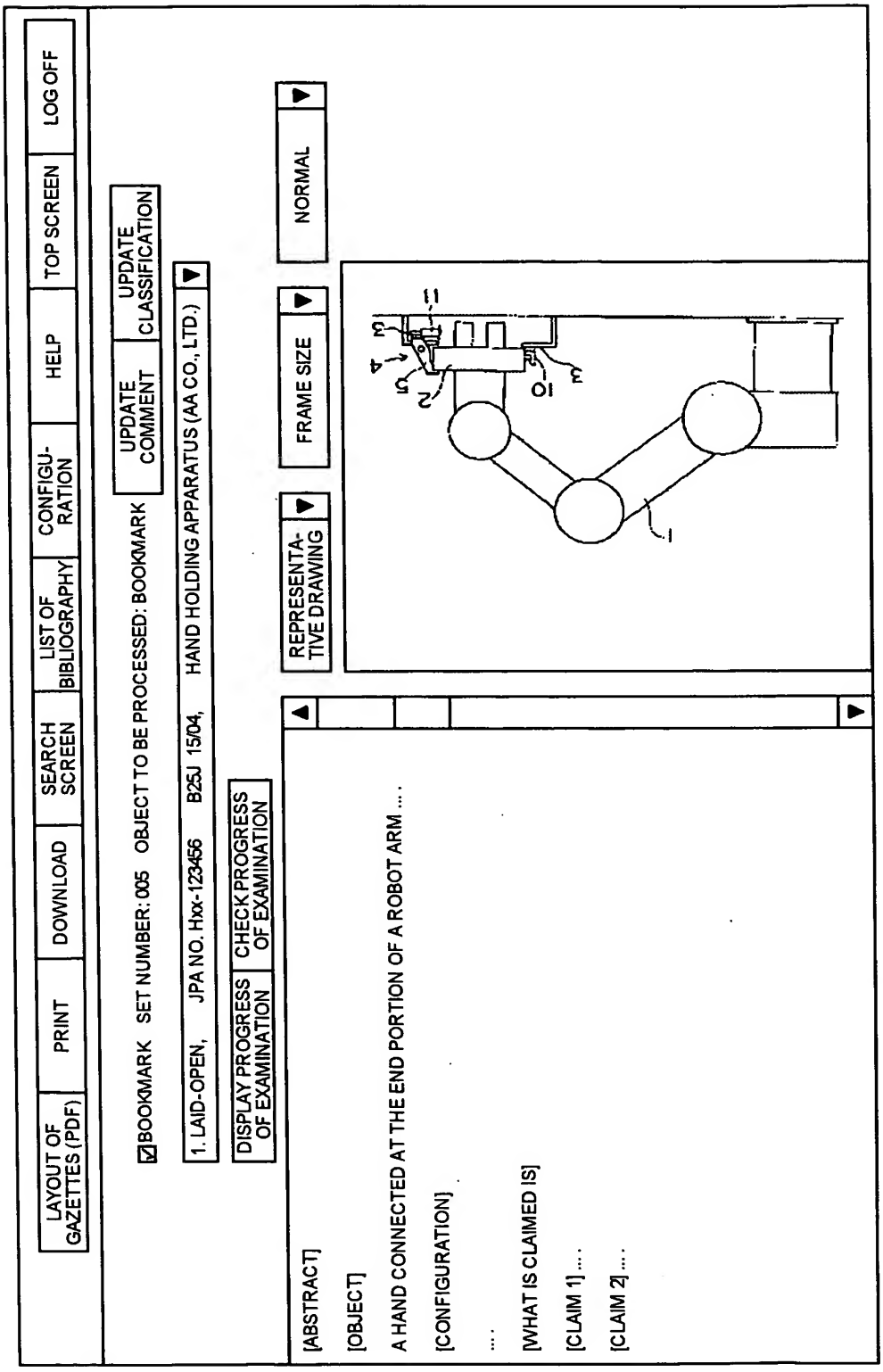
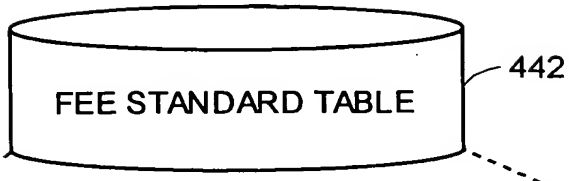
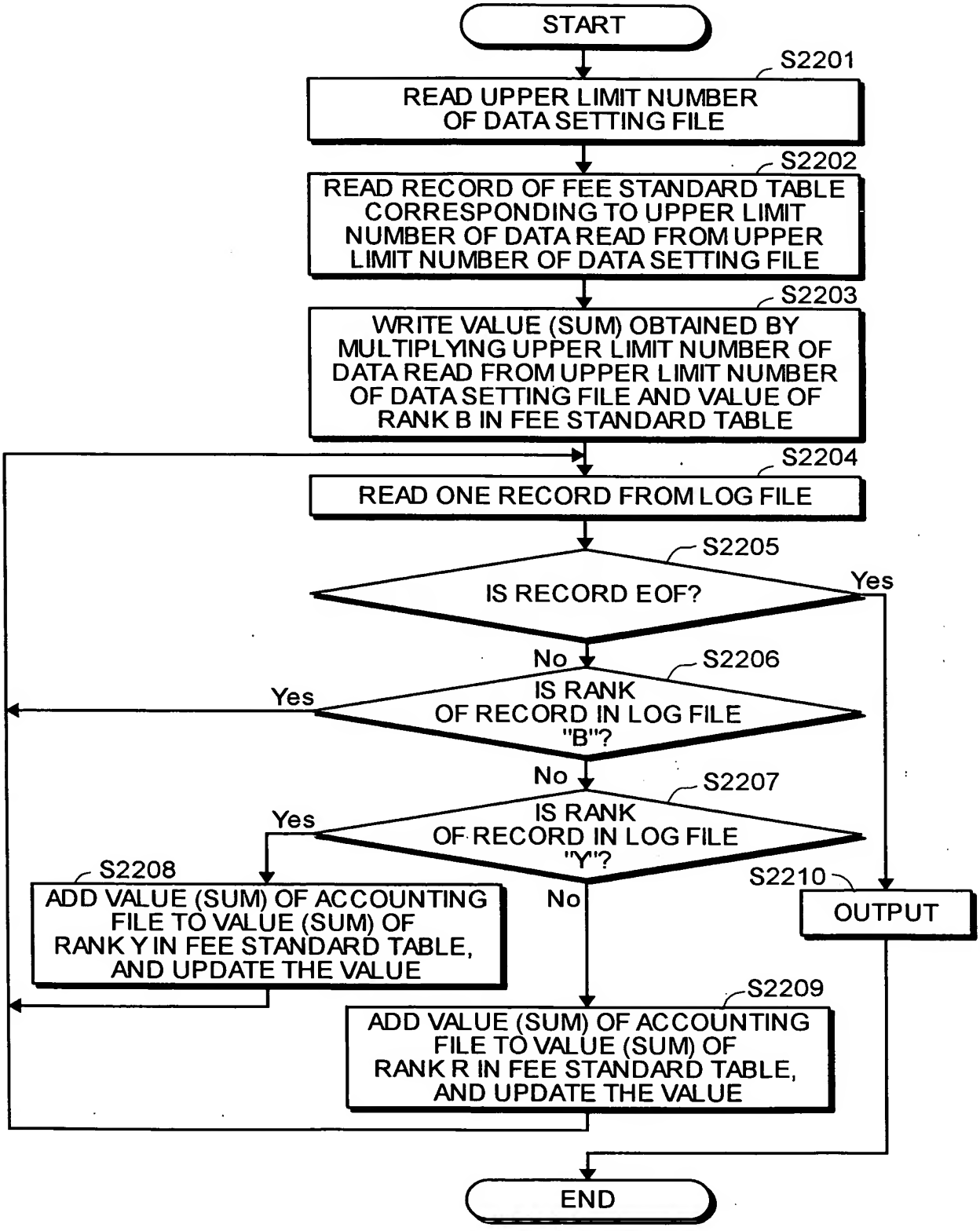

439
LAYOUT OF GAZETTES (PDF)
PRINT
DOWNLOAD
SEARCH SCREEN
LIST OF BIBLIOGRAPHY
CONFIGU-RATION
HELP
TOP SCREEN
LOG OFF
BOOKMARK SET NUMBER: 005 OBJECT TO BE PROCESSED: BOOKMARK
UPDATE COMMENT
UPDATE CLASSIFICATION
1. LAID-OPEN, JPA NO. Hxx-123456 B25J 15/04, HAND HOLDING APPARATUS (AA CO., LTD.)
DISPLAY PROGRESS OF EXAMINATION
CHECK PROGRESS OF EXAMINATION
REPRESENTA-TIVE DRAWING
FRAME SIZE
NORMAL
[ABSTRACT]
[OBJECT]
A HAND CONNECTED AT THE END PORTION OF A ROBOT ARM ....
[CONFIGURATION]
....
[WHAT IS CLAIMED IS]
[CLAIM 1] ....
[CLAIM 2] ....

FIG.21



	UNIT COST PER DATA (YEN)		
UPPER LIMIT NUMBER OF DATA	RANK B	RANK Y	RANK R
10000	5	25	200
50000	4	20	200
100000	2.5	13	200
500000	1	5	200
1000000	0.8	4	200
2000000	0.7	4	200
3000000	0.6	3	200
4000000	0.5	3	200
5000000	0.45	3	200

FIG.22


START
S2201
READ UPPER LIMIT NUMBER OF DATA SETTING FILE
S2202
READ RECORD OF FEE STANDARD TABLE CORRESPONDING TO UPPER LIMIT NUMBER OF DATA READ FROM UPPER LIMIT NUMBER OF DATA SETTING FILE
S2203
WRITE VALUE (SUM) OBTAINED BY MULTIPLYING UPPER LIMIT NUMBER OF DATA READ FROM UPPER LIMIT NUMBER OF DATA SETTING FILE AND VALUE OF RANK B IN FEE STANDARD TABLE
S2204
READ ONE RECORD FROM LOG FILE
S2205
IS RECORD EOF?
Yes
No
S2206
IS RANK OF RECORD IN LOG FILE "B"?
Yes
No
S2207
IS RANK OF RECORD IN LOG FILE "Y"?
Yes
No
S2208
ADD VALUE (SUM) OF ACCOUNTING FILE TO VALUE (SUM) OF RANK Y IN FEE STANDARD TABLE, AND UPDATE THE VALUE
S2209
ADD VALUE (SUM) OF ACCOUNTING FILE TO VALUE (SUM) OF RANK R IN FEE STANDARD TABLE, AND UPDATE THE VALUE
S2210
OUTPUT
END